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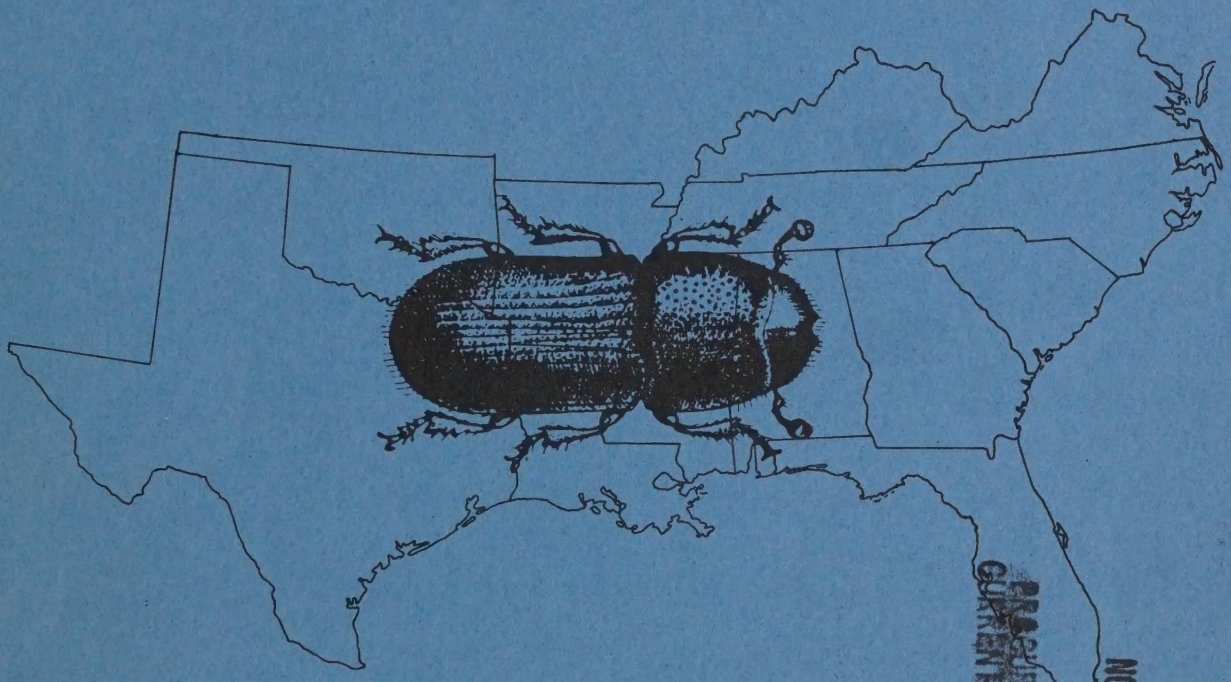
SOUTHEASTERN AREA
SOUTHERN PINE BEETLE OUTBREAK STATUS
July 1974



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FY 1974 OUTBREAK STATISTICS

Ownership	Infested Volume Salvaged		Funds Expended	Acreage Treated [1/]
	MBF	MCF	$	acres
State & Private	126,990	48,175	$ 2,033,182 [2/]	74,765 [3/]
Federal	35,626	3,108	$ 445,463	8,425
SA Total	162,616	51,283	$ 2,478,645	83,190

1/ Estimated combined total acreage of salvaged infested, piled and burned, and chemically treated trees.

2/ Total of $1,100,966 Federal and $932,216 State and private funds.

3/ Salvage treatment acreage calculated from salvage volumes at 800 cubic feet per acre; acreages for pile and burn and chemical treatment are not included for State and private lands.

OUTLOOK FOR FY 1975

Ownership	Total Acreage of Susceptible Host Type in SA [4/]	Net Acreage of Host Type in Outbreak	Federal Funds Requested for Control Projects	Anticipated Infested Volume to be Salvaged	
	Acres	Acres	$	MBF	MCF
State & Private	77,340,400	47,305,358	$ 1,324,690	70,762	57,570
Federal	7,842,800	2,512,934	604,520	38,561	75
SA Total	85,183,200	49,818,292	1,929,210	109,323	57,645

4/ Includes susceptible host type acreage in Kentucky, Florida, and Oklahoma not currently within the outbreak area.

States with Cooperative Suppression Projects - 9

Alabama	Louisiana	South Carolina
Arkansas	Mississippi	Texas
Georgia	North Carolina	Virginia

Federal Administrative Units with Suppression Projects

National Forests in North Carolina

Chattahoochee-Oconee National Forests, Georgia

Jefferson National Forest, Virginia

National Forests in Texas

Francis Marion and Sumter National Forests, South Carolina

Kisatchie National Forest, Louisiana

National Forests in Alabama

National Forests in Mississippi

Cherokee National Forest, Tennessee

Oak Ridge National Lab, Atomic Energy Commission, Tennessee

George Washington National Forest, Virginia

SUMMARY

Approximately 58 percent of the 85.2 million acres of susceptible pine forests in the 13 Southeastern States are currently included in the outbreak.

The intensity of the outbreak, expressed in numbers of counties involved, increased slightly in Texas and Arkansas (gain of 6 counties); decreased in Louisiana, Mississippi, and Alabama (reduction by 17 counties); and increased dramatically in Georgia, South Carolina, North Carolina, and Virginia (gain of 43 counties) for a net increase of 32 counties. A total of 347 counties are included within the outbreak boundary.

U.S. Forest Service entomologists forecast a continuing intensification of the outbreak in the Georgia to Virginia area and a reduction in the Alabama to Texas region over the next 6 months.

APPENDIX

TABLE 1. Area of Susceptible Host Types in the Southeast by Ownership Class.[1/]
(thousand acres)

State	Ownership	Forest Types: Loblolly	Shortleaf	Shortleaf Loblolly	Pitch	Southern Pine[2/]	Oak Pine	Pond	Virginia	Table Mtn.	Longleaf Slash	Total
Alabama	Private	--	--	7,132.3	--	--	4,614.5	--	--	--	1,854.4	13,601.2
	Public	--	--	305.5	--	--	220.4	--	--	--	144.3	670.2
	Total	--	--	7,437.8	--	--	4,834.9	--	--	--	1,998.7	14,271.4
Arkansas	Private	--	--	2,982.5	--	--	2,466.6	--	--	--	--	5,449.1
	Public	--	--	685.5	--	--	573.0	--	--	--	--	1,258.5
	Total	--	--	3,668.0	--	--	3,039.6	--	--	--	--	6,707.6
Florida	Private	339.9	34.5	--	--	--	1,365.0	261.8	--	--	--	2,001.2
	Public	4.5	--	--	--	--	303.3	81.8	--	--	--	389.6
	Total	344.4	34.5	--	--	--	1,668.3	343.6	--	--	--	2,390.8
Georgia	Private	4,818.4	1,637.9	--	--	--	3,350.7	285.0	265.0	--	--	10,357.0
	Public	256.3	97.4	--	--	--	289.2	19.5	35.4	--	--	697.8
	Total	5,074.7	1,735.3	--	--	--	3,639.9	304.5	300.4	--	--	11,054.8
Kentucky	Private	--	--	--	--	326.2	443.5	--	--	--	--	769.7
	Public	--	--	--	--	41.5	113.9	--	--	--	--	155.4
	Total	--	--	--	--	367.7	557.4	--	--	--	--	925.1
Louisiana	Private	--	--	4,161.4	--	--	2,034.4	--	--	--	1,068.6	7,264.4
	Public	--	--	277.9	--	--	135.0	--	--	--	151.5	564.4
	Total	--	--	4,439.3	--	--	2,169.4	--	--	--	1,220.1	7,828.8
Mississippi	Private	--	--	3,718.8	--	--	2,969.8	--	--	--	1,051.6	7,740.2
	Public	--	--	523.8	--	--	402.2	--	--	--	283.8	1,209.8
	Total	--	--	4,242.6	--	--	3,372.0	--	--	--	1,335.4	8,950.0
North Carolina	Private	3,009.6	1,037.1	--	32.9	--	3,326.4	1,181.0	780.2	4.2	--	9,371.4
	Public	111.7	42.6	--	13.0	--	230.2	227.6	8.9	14.7	--	648.7
	Total	3,121.3	1,079.7	--	45.9	--	3,556.6	1,408.6	789.1	18.9	--	10,020.1
Oklahoma	Private	--	--	675.6	--	--	568.2	--	--	--	--	1,243.8
	Public	--	--	119.7	--	--	96.1	--	--	--	--	215.8
	Total	--	--	795.3	--	--	664.3	--	--	--	--	1,459.6
South Carolina	Private	2,588.9	772.9	--	4.6	--	1,970.8	344.7	151.7	--	--	5,833.6
	Public	327.6	101.2	--	--	--	154.0	40.7	10.9	--	--	634.4
	Total	2,916.5	874.1	--	4.6	--	2,124.8	385.4	162.6	--	--	6,468.0
Tennessee	Private	--	--	847.8	--	--	998.7	--	--	--	--	1,846.5
	Public	--	--	151.0	--	--	199.3	--	--	--	--	350.3
	Total	--	--	998.8	--	--	1,198.0	--	--	--	--	2,196.8
Texas	Private	--	--	4,315.0	--	--	2,241.9	--	--	--	347.9	6,904.8
	Public	--	--	593.7	--	--	64.2	--	--	--	10.6	668.5
	Total	--	--	4,908.7	--	--	2,306.1	--	--	--	358.5	7,573.3
Virginia	Private	1,077.6	323.8	--	32.4	--	2,326.8	2.6	1,174.4	19.9	--	4,957.5
	Public	38.3	15.2	--	31.2	--	210.5	--	71.3	12.9	--	379.4
	Total	1,115.9	339.0	--	63.6	--	2,537.3	2.6	1,245.7	32.8	--	5,336.9
Total	Private	11,834.4	3,806.2	23,833.4	69.9	326.2	28,677.3	2,075.1	2,371.3	24.1	4,322.5	77,340.4
	Public	738.4	256.4	2,657.1	44.2	41.5	2,991.3	369.6	126.5	27.6	590.2	7,842.8
	All Ownership	12,572.8	4,062.6	26,490.5	114.1	367.7	31,668.6	2,444.7	2,497.8	51.7	4,912.7	85,183.2

1/ Data extracted from U.S. Forest Service Resource Bulletins published by the Southern & Southeastern Forest Experiment Stations.

2/ Forests in which 50% or more of the stocking is in shortleaf or other southern yellow pines singly or in combination.

Table 2. SITUATION AND ACCOMPLISHMENT 1972 - 1974

State	Ownership	FY 1972 Gross Outbreak Area 1/	FY 1972 Federal Funds Expended $	FY 1972 Infested Volume Salvaged MBF	FY 1972 Infested Volume Salvaged MCF	FY 1973 Gross Outbreak Area 1/	FY 1973 Federal Funds Expended $	FY 1973 Infested Volume Salvaged MBF	FY 1973 Infested Volume Salvaged MCF	FY 1974 Gross Outbreak Area 1/	FY 1974 Federal Funds Expended $	FY 1974 Infested Volume Salvaged MBF	FY 1974 Infested Volume Salvaged MCF
Alabama	Private	---	---	---	---	15,000,000	500,000	66,722	20,377	15,000,000	475,000	28,843	12,670
	Federal	203,000	13,293	804	---	500,000	180,064	6,194	502	1,270,240	74,658	1,815	185
	Total	203,000	13,293	804	---	15,500,000	680,064	72,916	20,839	16,270,240	549,658	30,658	12,855
Arkansas	Private	---	---	---	---	645,000	22,952	879	188	1,336,000	21,285	341	160
	Federal	---	---	---	---	---	---	---	---	---	---	---	---
	Total	---	---	---	---	645,000	22,952	879	188	1,336,000	21,285	341	160
Georgia	Private	2,000,000	988	290	---	9,200,000	38,000	3,920	2,717	9,018,130	96,000	31,282	13,099
	Federal	296,690	10,960	4,767	---	700,000	51,396	6,431	628	1,336,132	50,124	3,937	315
	Total	2,296,690	11,948	5,057	---	9,900,000	89,396	10,351	3,345	10,354,262	146,124	35,219	13,414
Louisiana	Private	4,000,000	26,000	16,000	450	7,500,000	285,000	17,826	2,668	6,800,000	100,000	1,292	158
	Federal	561,000	60,630	6,550	---	600,000	59,894	2,742	411	1,017,287	32,000	820	33
	Total	4,561,000	86,630	22,550	450	8,100,000	344,894	20,568	3,079	7,817,287	132,000	2,112	191
Mississippi	Private	---	---	---	---	1,600,000	44,960	240	518	1,652,600	56,210	830	451
	Federal	188,615	17,168	3,000	---	200,000	50,034	2,513	10	373,497	36,618	3,351	0
	Total	188,615	17,168	3,000	---	1,800,000	94,994	2,753	528	2,026,097	92,828	4,181	451
North Carolina	Private	4,327,717	9,579	21,025	---	6,700,000	62,841	20,143	2,351	13,500,000	110,471	41,833	6,431
	Federal	631,220	21,110	900	---	600,000	41,448	2,012	110	2,752,430	33,000	2,459	705
	Total	4,958,937	30,689	21,925	---	7,300,000	104,289	22,155	2,461	16,252,430	143,471	44,292	7,136
South Carolina	Private	514,000	---	---	113	3,600,000	---	544	558	3,900,000	47,500	5,101	10,725
	Federal	481,479	22,070	2,767	---	1,300,000	55,183	2,902	814	1,474,444	35,250	3,120	377
	Total	995,479	22,070	2,767	113	4,900,000	55,183	3,446	1,372	5,249,444	82,750	8,221	11,102
Tennessee	Private	---	---	---	---	---	---	---	---	1,714,984	---	676	9
	Federal	50,000	15,700	579	---	80,000	22,350	341	69	338,136	27,068	620	121
	Total	50,000	15,700	579	---	80,000	22,350	341	69	2,053,120	27,068	1,296	130
Texas	Private	6,200,000	45,000	2,000	---	8,000,000	165,000	28,000	811	8,000,000	185,000	4,941	381
	Federal	80,000	4,800	300	---	700,000	56,924	4,847	185	1,716,967	140,835	17,004	643
	Total	6,280,000	49,800	2,300	---	8,700,000	221,924	32,847	996	9,716,967	325,835	21,945	1,024
Virginia	Private	---	---	---	---	4,600,000	---	6,000	2,700	6,889,600	9,500	11,326	4,090
	Federal	---	---	---	---	71,485	9,460	180	497	3,689	15,910	2,500	729
	Total	---	---	---	---	4,671,485	9,460	6,180	3,197	6,963,289	25,410	13,826	4,819
SA TOTALS	Private	17,041,717	$ 81,567	39,315	563	56,845,000	$1,118,753	144,274	32,848	67,686,314	$1,100,966	126,990	48,175
	Federal	2,492,004	$165,731	19,667	---	4,751,485	$ 526,753	28,162	3,226	10,352,822	$ 445,463	35,626	3,108
	Total	19,533,721	$247,298	58,982	563	61,596,485	$1,645,506	172,436	36,074	78,039,136	$1,546,429	162,616	51,283

1/ Total acreage of all counties within outbreak area. See Table 4.

Table 3. OUTLOOK FOR SOUTHERN PINE BEETLE SITUATION IN SOUTHEASTERN AREA FOR FY 1975

State	Ownership	Federal Funds Requested	Anticipated Infested Volume to be Salvaged MBF	Anticipated Infested Volume to be Salvaged MCF	Total Acreage of Host Type	Net Acreage of Host Type in Current Outbreak	Current Status and Course of Outbreak
Alabama	Private	$ 500,000	14,762	---	13,601,200	9,888,400	Populations have shifted to the East Central and Northeast. The normal summer increase in number of spots is occurring but is not expected to reach 1973 levels.
	Federal	79,247	2,925	---	670,200	636,712	
	Total	579,247	17,687	---	14,271,400	10,525,112	
Arkansas	Private	25,190 1/	---	385	5,449,100	938,900	Infestations are intensifying within the outbreak area and are gradually moving to the Northeast. No major buildup is expected.
	Federal	---	---	---	1,258,500	---	
	Total	25,190	---	385	6,707,600	938,900	
Georgia	Private	215,000	---	36,450	10,357,000	6,398,820	Populations are at relatively high levels. Infestations are 32% higher than in 1973. Damage has increased rapidly in the Savannah area since February 1974, when first detected.
	Federal	52,000	5,950	---	697,800	176,257	
	Total	267,000	5,950	36,450	11,054,800	6,575,077	
Louisiana	Private	75,000 1/	---	505	7,264,400	4,800,300	Statewide, populations are low. Allen and Calcasieu Parishes are experiencing large infestations but beetles are not expected to reach outbreak proportions this summer.
	Federal	48,400	1,000	---	564,400	322,400	
	Total	123,400	1,000	505	7,828,800	5,122,700	
Mississippi	Private	65,000 1/	200	180	7,740,200	2,056,400	Infestation levels appear to be declining slightly and no major buildup is expected.
	Federal	61,824	4,500	---	1,209,800	250,242	
	Total	126,824	4,700	180	8,950,000	2,306,642	
North Carolina	Private	190,000 1/	50,000	7,800	9,371,400	8,171,964	Conditions are the worst in 15 years. An estimated 13,500 spots Statewide reflect a 100% increase in activity since the winter/spring surveys. Many new counties are now involved.
	Federal	38,500	1,830	---	648,700	116,714	
	Total	228,500	51,830	7,800	10,020,100	8,288,678	
South Carolina	Private	40,000	---	4,062	5,833,600	5,765,458	The outbreak has moved from the upper Piedmont, where it is lessening in intensity, to the lower Piedmont, Central, and lower Coastal Plain Regions where it appears to be on the upswing.
	Federal	31,500	5,000	---	634,400	292,554	
	Total	71,500	5,000	4,062	6,468,000	6,058,012	
Tennessee	Private	---	300	7	1,846,500	741,646	Scattered spots present in all infested counties. Infestations in the mountainous areas of Cocke County are expanding at a rapid rate.
	Federal	10,200	400	---	350,300	135,244	
	Total	10,200	700	7	2,196,800	876,890	
Texas	Private	200,000	---	5,181	6,904,800	5,788,463	Most of the State has shown an increase in the number of spots compared to 1973. A decline in number of spots is expected during the remainder of 1974.
	Federal	247,849	14,956	---	668,500	556,537	
	Total	447,849	14,956	5,181	7,573,300	6,345,000	
Virginia	Private	14,500	5,500	3,000	4,957,500	2,755,007	At high static levels in the central Piedmont, new highs in portions of Isle of Wight, Nansemond and Sussex Counties, and on upswing in other southern Coastal Plain Counties.
	Federal	35,000	2,000	75	379,400	26,274	
	Total	49,500	7,500	3,075	5,336,900	2,781,281	
SA TOTALS	Private	1,324,690	70,762	57,570	73,325,700	47,305,358	
	Federal	604,520	38,561	75	7,082,000	2,512,934	
	Total	1,929,210	109,323	57,645	80,407,700	49,818,292	

1/ Anticipated request; proposal not received by August 9, 1974.

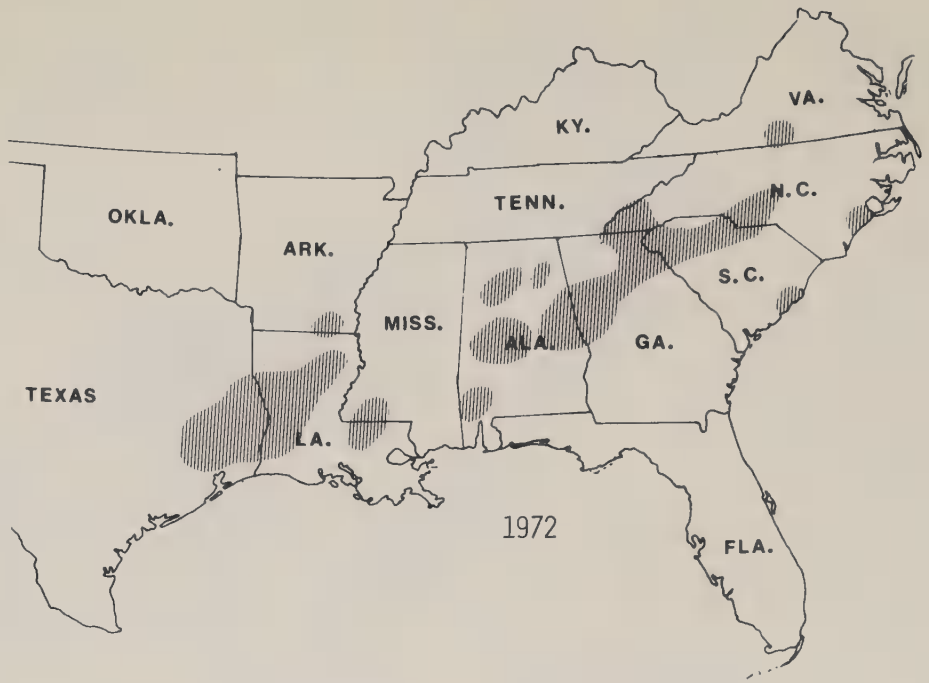
Table 4. Southern Pine Beetle Outbreak Intensity, July 1974.

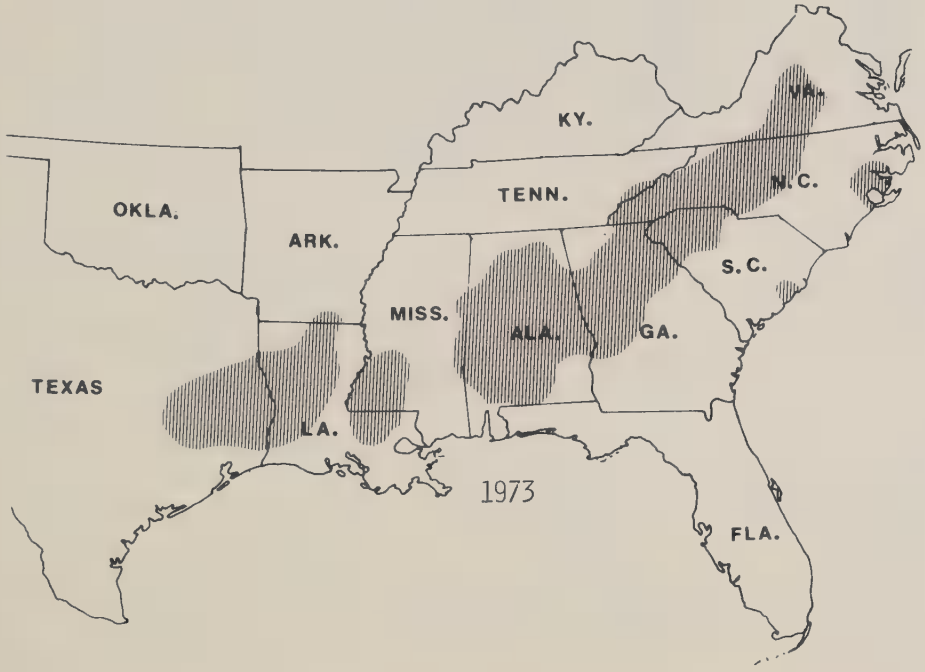
State	Total Number of Counties in State	Number of Counties w/Susceptible Host Type in State [1/]	Number of Infested Counties in Current Outbreak		
			Jul 73	Jan 74	Jul 74
Alabama	67	66	53	53	50
Arkansas	75	47	4	2	4
Georgia	159	158	58	56	70
Louisiana	64	38	31	31	21
Mississippi	82	69	17	18	14
North Carolina	100	100	60	71	81
South Carolina	46	46	22	22	26
Tennessee	95	55	10	13	13
Texas	254	44 [2/]	22	22	26
Virginia	98	87	26	27	42
SA Total	1040	710	303	315	347

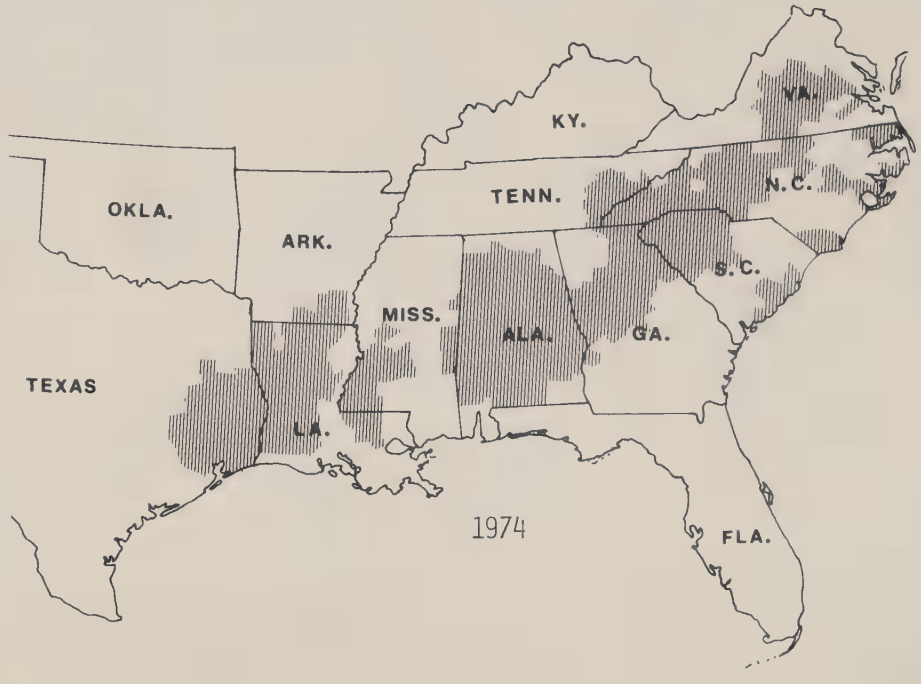
1/ Susceptible host types include loblolly, shortleaf, pitch, pond, Virginia, table mountain, longleaf, and slash pines.

2/ East Texas counties only.

FIGURE 1 CHRONOLOGICAL DEVELOPMENT OF THE SOUTHERN PINE BEETLE OUTBREAK FY 1971 - FY 1974







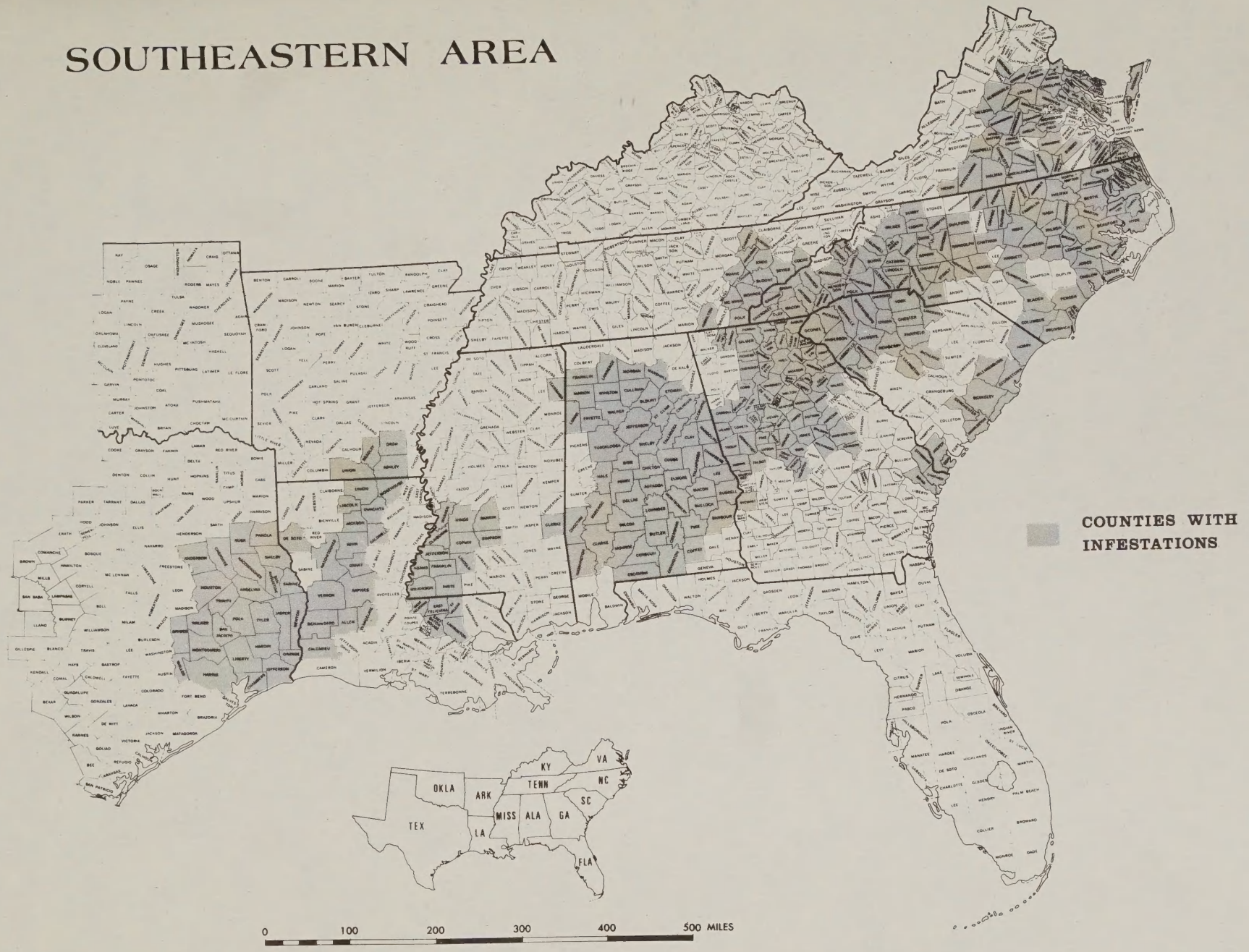


FIGURE 2 FY 1975 LOCATION OF SOUTHERN PINE BEETLE OUTBREAK, SOUTHEASTERN AREA